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ABSTRACT OF THE DISCLOSURE

An apparatus for motion estimation generally including a memory and a circuit. The circuit may be configured to (i) search for a first motion vector for a first current block among a plurality of first reference samples, (ii) copy a plurality of 5 second reference samples from the memory and (iii) search for a second motion vector for a second current block among the second reference samples copied from the memory and at least a portion of the first reference samples.